

ELEMENTARY
Scope and Sequence Investigation

TEACHER NAME:

Jeannie Lei

Grade Level:

Second using Littleton Public Schools Scope and Sequence Charts

Units COVERED

Math

Number Sense and Relationships

Demonstrate number meanings and relationships by using whole numbers and fractions

Explain addition and subtraction many different ways.

Algebraic concepts

Study of geometric shapes, patterns using symbols words and numbers

Describe and compare the differences between 2 dimensional shapes using math vocabulary

Data Collection and Analysis, Statistics and Probability

Collect and record, represent, and interpret data.

Measurement

Describe and estimate units of measure. Compare and order them.

Science

Physical Science

Study of different states of matter and temperature

Life Science

Study of plants and the environment

Earth and Space Science

Weather unit and the Earth

Science, Society and Technology

Explain the importance of recycling

Social Studies

Examine and current issues

Explore early Littleton and Centennial Colorado to understand local history

Use geographical knowledge to understand physical geography

Explore Colonial America

Language Arts	Read and understand the meaning of fiction and non-fiction.	Apply a variety of strategies to decoding books	Demonstrate thinking strategies that come before and during and after reading.
	Use a variety of technology to gather information.	Understand that reading pace changes with purpose, style and level of text.	Identify textual events to life experiences.

PART II – Potential project ideas for units

Math: For number sense and relationships	Use a number line and number grid to demonstrate the numbers in ascending order and how in a number grid and how it is possible to count by 2s, 5s, and 10s down the number grid. Call on students to identify look for these relationships. For fractions use a pizza to divide for the class. Use a folded piece of paper too.
Algebraic Methods	Using the students themselves to demonstrate story problems that involve multiplication by asking students to hold several small objects and then asking students to add them up. Telling students to create their own story problems the same way.
Data Collection and Analysis	Take a survey of all the students in class about their favorite activities and put them on a graph and then see which ones are the most and least popular.
Geometric Concepts	Ask students to bring shapes from home that are related to the unit. Polygons, hexagons and pyramids and talk about them.
Measurement	Have the students measure each other in small groups then estimate measurements for chairs and tables in the room.

Computational Techniques	Model several different strategies for subtraction and addition by starting with estimating how to round numbers down or up to get a base number.
Sciences	Measure liquids in different sizes of containers by pouring the same amount into them. Ask students to make their hypothesis on which might hold more or less. Grow plants in the classroom and ask students to make their own observations about them weekly. Research different environments, and use a light as a sun to show how when the earth rotates it gets sun in a different way. Bring recycled products in for the class to touch and look at. Plan a field trip to t recycling plant.
Social Studies	Talk about the upcoming elections have a classroom vote for the president. Describe the physical geography and climate that attributes to Colorado's dry weather. Have the students pretend they are pioneers and moving to the West. What would they take with them in a covered wagon and why.
Language Arts	Ask students to break words down into syllables to spell them ask students to use visual cues in pictures when reading. Read aloud and talk about what happened in a book (For example: "Officer Buckle and Gloria" and ask the kids how maybe they have felt like one of the characters.